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# NOTICE OF ALLOWANCE AND FEE(S) DUE

22851 7590 09/08/2008
DELPHI TECHNOLOGIES, INC.
M/C 480-410-202
PO BOX 5052

TROY, MI 48007

EXAMINER
HAILEY, PATRICIA L

ARTUNT PAPER NUMBER
1793
DATE MAILED 09/08/2008

ſ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
Ī	10/600,420	06/19/2003	Jiyang Yan	DP-308706	7012

TITLE OF INVENTION: METHODS FOR MAKING A CATALYTIC ELEMENT, THE CATALYTIC ELEMENT MADE THEREFROM, AND CATALYZED PARTICULATE FILTERS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/08/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificat	correspondence includir d below or directed oth ions	ng the Patent, advance on nerwise in Block 1, by (	rders and notification of a) specifying a new corr	maintenance fees v espondence address	will be ; and/o	mailed to the current r (b) indicating a sepa	correspondence ad trate "FEE ADDRI	dress as ESS" for
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3. ASSIGNEE NAME AT PLEASE NOTE: Unit recordation as set forti (A) NAME OF ASSIG	ess an assignee is ident n in 37 CFR 3.11. Comp BNEE	ified below, no assignee pletion of this form is NC	data will appear on the T a substitute for filing a: (B) RESIDENCE: (CIT	patent. If an assign n assignment. 'Y and STATE OR (	COUN	IRY)		
4a. The following fee(s) a  ☐ Issue Fee ☐ Publication Fee (N ☐ Advance Order - #	o small entity discount p		b. Payment of Fee(s): (Plotal A check is enclosed.  Payment by credit compared in the Director is here overpayment, to Dep	ard. Form PTO-203	3 is att	ached. required fee(s), any de		iny form).
	SMALL ENTITY state	is. See 37 CFR 1.27.	b. Applicant is no lo					
NOTE: The Issue Fee and interest as shown by the r	f Publication Fee (if requeeords of the United Sta	uired) will not be accepte tes Patent and Trademarl	ed from anyone other than k Office.	the applicant; a reg	istered	attorney or agent; or the	ne assignee or other	party in
Authorized Signature				Date				
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



# UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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10/600,420	06/19/2003	Jiyang Yan	DP-308706	7012	
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M/C 480-410-202	2	ART UNIT	PAPER NUMBER		
PO BOX 5052 TROY, MI 48007	,		1793 DATE MAILED: 09/08/2008		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 192 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 192 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

#### Application No. Applicant(s) 10/600,420 YAN, JIYANG Notice of Allowability Examiner Art Unit PATRICIA I HAILEY 1793 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to Appellant's Appeal Brief filed on November 19, 2007. The allowed claim(s) is/are 1,3-8 and 13-16. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some\* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. T Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

Application/Control Number: 10/600,420 Art Unit: 1793

Appellant's Appeal Brief, filed on November 17, 2007, has been carefully considered. Claims 1, 3-8, and 13-16 were under appeal, and are presently pending in this application.

#### Withdrawn Rejections

The 103(a) rejection of claims 1, 3-8, and 13-16 as being unpatentable over Voss et al. (U. S. Patent Application Publication No. 2003/0124037) in view of Canadian Patent No. 2,299,602 has been withdrawn in view of the persuasive arguments stated in the Appeal Brief.

#### Allowable Subject Matter

Claims 1, 3-8, and 13-16 are allowed.

# Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

The prior art of record does not teach or suggest the claimed method for making a diesel particulate filter, wherein a wall-flow substrate (comprising an inlet channel, an outlet channel, and a porous wall separating the inlet and outlet channels, and characterized by pores having an average pore size between 5 micrometers and 500 micrometers) is provided, and sized catalyst-bearing particles are applied to the inlet wall surface of the wall-flow substrate (and not the outlet wall surface thereof) by

applying a slurry comprising the sized catalyst-bearing particles and calcining to cause said catalyst-bearing particles to cause said particles to penetrate within the pores of the porous wall to a distance not greater than about 25% of the thickness of the porous wall.

The sized catalyst-bearing particles are formed by applying a promoter oxide compound onto refractory inorganic oxide particles by forming a slurry of refractory inorganic oxide particles dispersed in a solution containing a precursor of said promoter oxide compound and calcining to form the promoter oxide compound, and depositing the promoter oxide compound onto the refractory inorganic oxide particles to form supported promoter particles, impregnating the supported promoter particles with a noble metal catalyst to form catalyst-bearing particles, and sizing the catalyst-bearing particles to an average particle diameter of about 2 micrometers to about 10 micrometers, wherein the particle size is about 10% to about 80% of the average pore size.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PATRICIA L. HAILEY whose telephone number is

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(571)272-1369. The examiner can normally be reached on Mondays-Fridays, from 7:00 a.m. to 3:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo, can be reached on (571) 272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group 1700 Receptionist, whose telephone number is (571) 272-1700.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jerry A Lorengo/ Supervisory Patent Examiner, Art Unit 1793

/PATRICIA L. HAILEY/ Examiner, Art Unit 1793 September 2, 2008